

## ABSTRACT OF THE DISCLOSURE

A soft magnetic film is formed which is represented by the formula  $(\text{Fe}_x\text{Ni}_y)_a\text{Mo}_b$ , in which  $0.65 \leq x \leq 0.75$  and  $x+y=1$  are  
5 satisfied when  $x$  and  $y$  are on a mass percent ratio basis, and  $0 < b \leq 5$  and  $a+b=100$  are satisfied when  $a$  and  $b$  are on a mass percent basis, and by using this soft magnetic film, a lower core layer and/or an upper core layer is formed. Accordingly, a saturated magnetic flux density of 1.6 T or more and a  
10 resistivity of  $40 \mu\Omega \cdot \text{cm}$  or more can be obtained, and hence a thin film magnetic head having a small loss in a high frequency signal region can be provided.